RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _10/785,210_

Source: _1FWO_

Date Processed by STIC: _3/8/04_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 4.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: _10/985,210_

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length
The rules require that a line **not exceed 72** characters in length. This includes white spaces.

3 _____ Misaligned Amino Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.

4 _____ Non-ASCII
The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**

5 _____ Variable Length
Sequence(s) _____ contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7 _____ Skipped Sequences (OLD RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

8 _____ Skipped Sequences (NEW RULES)
Sequence(s) _____ missing. **If intentional,** please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 _____ Invalid <213> Response
Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220>
Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n/Xaa
"n" can **only** represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u>

IFWO

RAW SEQUENCE LISTING   DATE: 03/08/2004
PATENT APPLICATION: US/10/785,210   TIME: 09:32:47

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\03082004\J785210.raw

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 3 <110> APPLICANT: The Dow Chemical Company
 4        Strom, Robert M.
 5        Brondsema, Philip J.
 7 <120> TITLE OF INVENTION: PERIODIC ANTIMICROBIAL PEPTIDES
 9 <130> FILE REFERENCE: 43225-62424USPT
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/785,210
12 <141> CURRENT FILING DATE: 2004-02-24
14 <150> PRIOR APPLICATION NUMBER: to be assigned
15 <151> PRIOR FILING DATE: 2003-02-24
17 <160> NUMBER OF SEQ ID NOS: 56
19 <170> SOFTWARE: PatentIn version 3.2
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 16
23 <212> TYPE: PRT
24 <213> ORGANISM: Periodic Peptide
26 <400> SEQUENCE: 1
28 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
29 1               5                   10                  15
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 20
34 <212> TYPE: PRT
35 <213> ORGANISM: Periodic Peptide
37 <400> SEQUENCE: 2
39 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
40 1               5                   10                  15
43 Lys Phe Ala Lys
44              20
47 <210> SEQ ID NO: 3
48 <211> LENGTH: 24
49 <212> TYPE: PRT
50 <213> ORGANISM: Periodic Peptide
52 <400> SEQUENCE: 3
54 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
55 1               5                   10                  15
58 Lys Phe Ala Lys Lys Phe Ala Lys
59              20
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 28
64 <212> TYPE: PRT
65 <213> ORGANISM: Periodic Peptide
67 <400> SEQUENCE: 4
69 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
70 1               5                   10                  15
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[Handwritten annotations: "pp 1-5", "(global error)", "Does Not Comply", "Corrected Diskette Needed", "invalid <2137 response. See item 10 on Error Summary Sheet."]

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 73 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
 74             20                  25

 77 <210> SEQ ID NO: 5
 78 <211> LENGTH: 32
 79 <212> TYPE: PRT
 80 <213> ORGANISM: Periodic Peptide
 82 <400> SEQUENCE: 5

 84 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
 85 1               5                  10                 15

 88 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
 89             20                  25                 30

 92 <210> SEQ ID NO: 6
 93 <211> LENGTH: 48
 94 <212> TYPE: PRT
 95 <213> ORGANISM: Periodic Peptide
 97 <400> SEQUENCE: 6

 99 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
100 1               5                  10                 15

103 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
104             20                  25                 30

107 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
108             35                  40                 45

111 <210> SEQ ID NO: 7
112 <211> LENGTH: 68
113 <212> TYPE: PRT
114 <213> ORGANISM: Periodic Peptide
116 <400> SEQUENCE: 7

118 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
119 1               5                  10                 15

122 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
123             20                  25                 30

126 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
127             35                  40                 45

130 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
131     50                  55                 60

134 Lys Phe Ala Lys
135 65

138 <210> SEQ ID NO: 8
139 <211> LENGTH: 84
140 <212> TYPE: PRT
141 <213> ORGANISM: Periodic Peptide
143 <400> SEQUENCE: 8

145 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
146 1               5                  10                 15

149 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
150             20                  25                 30

153 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
154             35                  40                 45

157 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
```

RAW SEQUENCE LISTING   DATE: 03/08/2004
PATENT APPLICATION: US/10/785,210   TIME: 09:32:47

Input Set : A:\SEQUENCE LISTING.txt
Output Set: N:\CRF4\03082004\J785210.raw

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158      50                  55                  60
161 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
162 65              70                  75                  80
165 Lys Phe Ala Lys
169 <210> SEQ ID NO: 9
170 <211> LENGTH: 24
171 <212> TYPE: PRT
172 <213> ORGANISM: Periodic Peptide
174 <400> SEQUENCE: 9
176 Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg
177 1               5                  10                  15
180 Arg Phe Ala Arg Arg Phe Ala Arg
181             20
184 <210> SEQ ID NO: 10
185 <211> LENGTH: 28
186 <212> TYPE: PRT
187 <213> ORGANISM: Periodic Peptide
189 <400> SEQUENCE: 10
191 Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg
192 1               5                  10                  15
195 Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg
196             20                  25
199 <210> SEQ ID NO: 11
200 <211> LENGTH: 32
201 <212> TYPE: PRT
202 <213> ORGANISM: Periodic Peptide
204 <400> SEQUENCE: 11
206 Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg
207 1               5                  10                  15
210 Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg Arg Phe Ala Arg
211             20                  25                  30
214 <210> SEQ ID NO: 12
215 <211> LENGTH: 24
216 <212> TYPE: PRT
217 <213> ORGANISM: Periodic Peptide
219 <400> SEQUENCE: 12
221 Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys
222 1               5                  10                  15
225 Phe Ala Lys Lys Phe Ala Lys Lys
226             20
229 <210> SEQ ID NO: 13
230 <211> LENGTH: 24
231 <212> TYPE: PRT
232 <213> ORGANISM: Periodic Peptide
234 <400> SEQUENCE: 13
236 Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe
237 1               5                  10                  15
240 Ala Lys Lys Phe Ala Lys Lys Phe
241             20
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RAW SEQUENCE LISTING   DATE: 03/08/2004
PATENT APPLICATION: **US/10/785,210**   TIME: 09:32:47

Input Set : **A:\SEQUENCE LISTING.txt**
Output Set: **N:\CRF4\03082004\J785210.raw**

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246 <212> TYPE: PRT
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249 <400> SEQUENCE: 14
251 Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala
252 1               5                   10                  15
255 Lys Lys Phe Ala Lys Lys Phe Ala
256             20
259 <210> SEQ ID NO: 15
260 <211> LENGTH: 20
261 <212> TYPE: PRT
262 <213> ORGANISM: Periodic Peptide
264 <400> SEQUENCE: 15
266 Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu
267 1               5                   10                  15
270 Leu Lys Lys Leu
271             20
274 <210> SEQ ID NO: 16
275 <211> LENGTH: 24
276 <212> TYPE: PRT
277 <213> ORGANISM: Periodic Peptide
279 <400> SEQUENCE: 16
281 Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu
282 1               5                   10                  15
285 Leu Lys Lys Leu Leu Lys Lys Leu
286             20
289 <210> SEQ ID NO: 17
290 <211> LENGTH: 28
291 <212> TYPE: PRT
292 <213> ORGANISM: Periodic Peptide
294 <400> SEQUENCE: 17
296 Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu
297 1               5                   10                  15
300 Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu
301             20                  25
304 <210> SEQ ID NO: 18
305 <211> LENGTH: 32
306 <212> TYPE: PRT
307 <213> ORGANISM: Periodic Peptide
309 <400> SEQUENCE: 18
311 Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu
312 1               5                   10                  15
315 Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu Leu Lys Lys Leu
316             20                  25                  30
319 <210> SEQ ID NO: 19
320 <211> LENGTH: 28
321 <212> TYPE: PRT
322 <213> ORGANISM: Periodic Peptide
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RAW SEQUENCE LISTING   DATE: 03/08/2004
PATENT APPLICATION: US/10/785,210   TIME: 09:32:47

Input Set : **A:\SEQUENCE LISTING.txt**
Output Set: **N:\CRF4\03082004\J785210.raw**

```
324 <400> SEQUENCE: 19
326 Lys Phe Ala Phe Lys Phe Ala Phe Lys Phe Ala Phe Lys Phe Ala Phe
327 1               5               10              15
330 Lys Phe Ala Phe Lys Phe Ala Phe Lys Phe Ala Phe
331             20              25
334 <210> SEQ ID NO: 20
335 <211> LENGTH: 28
336 <212> TYPE: PRT
337 <213> ORGANISM: Periodic Peptide
339 <400> SEQUENCE: 20
341 Lys Phe Phe Lys Lys Phe Phe Lys Lys Phe Phe Lys Lys Phe Phe Lys
342 1               5               10              15
345 Lys Phe Phe Lys Lys Phe Phe Lys Lys Phe Phe Lys
346             20              25
349 <210> SEQ ID NO: 21
350 <211> LENGTH: 28
351 <212> TYPE: PRT
352 <213> ORGANISM: Periodic Peptide
354 <400> SEQUENCE: 21
356 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
357 1               5               10              15
360 Lys Phe Ala Lys Lys Phe Ala Lys Lys Phe Ala Lys
361             20              25
364 <210> SEQ ID NO: 22
365 <211> LENGTH: 28
366 <212> TYPE: PRT
367 <213> ORGANISM: Periodic Peptide
369 <400> SEQUENCE: 22
371 Lys Ala Ala Lys Lys Ala Ala Lys Lys Ala Ala Lys Lys Ala Ala Lys
372 1               5               10              15
375 Lys Ala Ala Lys Lys Ala Ala Lys Lys Ala Ala Lys
376             20              25
379 <210> SEQ ID NO: 23
380 <211> LENGTH: 28
381 <212> TYPE: PRT
382 <213> ORGANISM: Periodic Peptide
384 <400> SEQUENCE: 23
386 Lys Lys Ala Lys Lys Lys Ala Lys Lys Lys Ala Lys Lys Lys Ala Lys
387 1               5               10              15
390 Lys Lys Ala Lys Lys Lys Ala Lys Lys Lys Ala Lys
391             20              25
394 <210> SEQ ID NO: 24
395 <211> LENGTH: 15
396 <212> TYPE: PRT
397 <213> ORGANISM: Periodic Peptide
399 <400> SEQUENCE: 24
401 Lys Phe Lys Lys Phe Lys Lys Phe Lys Lys Phe Lys Lys Phe Lys
402 1               5               10              15
405 <210> SEQ ID NO: 25
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The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

VERIFICATION SUMMARY   DATE: 03/08/2004
PATENT APPLICATION: **US/10/785,210**   TIME: 09:32:48

Input Set : **A:\SEQUENCE LISTING.txt**
Output Set: **N:\CRF4\03082004\J785210.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number